

Data

Mass supported = \_\_\_\_\_g

Mass of boomilever = \_\_\_\_\_g

Structural efficiency = mass supported (grams)/ mass of boomilever (grams) = \_\_\_\_\_

Measurements: height \_\_\_\_\_cm (maximum of 20cm)

and length \_\_\_\_\_cm (minimum of 40cm)

## **Technical Report**

The technical report is an individual assignment! (This means no copying!)

### **Cover Page**

The very first page should be the cover page.

### **Table of Contents**

The second page should be the table of contents.

### **Daily Log**

You should have a log of every day you or your partner worked on the project. This includes, but not limited to, your research, brainstorming, sketches, and modifications.

### **Body**

Begin by writing about the processes that you went through to make the boomilever. You can start by looking at each step of the **Engineering Design Process** and applying it to your work. Use vocabulary from the vocabulary list assigned. The technical report must include recorded data from testing. You may refer to pictures in your report to give visual aid when explaining breakage of the boomilever.

### **Conclusion**

The conclusion needs to include a list of materials, design changes, observations and conclusions. Questions to address in your observations and conclusions include: What problems did your boomilever experience? What could have been done to improve your project? If any changes were made during the building, tell why. Make sure to also include other important observations and conclusions.

### **Design**

The original design and also any design changes should be included in the report. This can be the original paper or a picture of that paper (one partner should have the original). Give this a page number and a figure number for reference in the paper.

### **Resources**

The research should be cited on the last page labeled as "Resources". There should be **at least 3** sources.